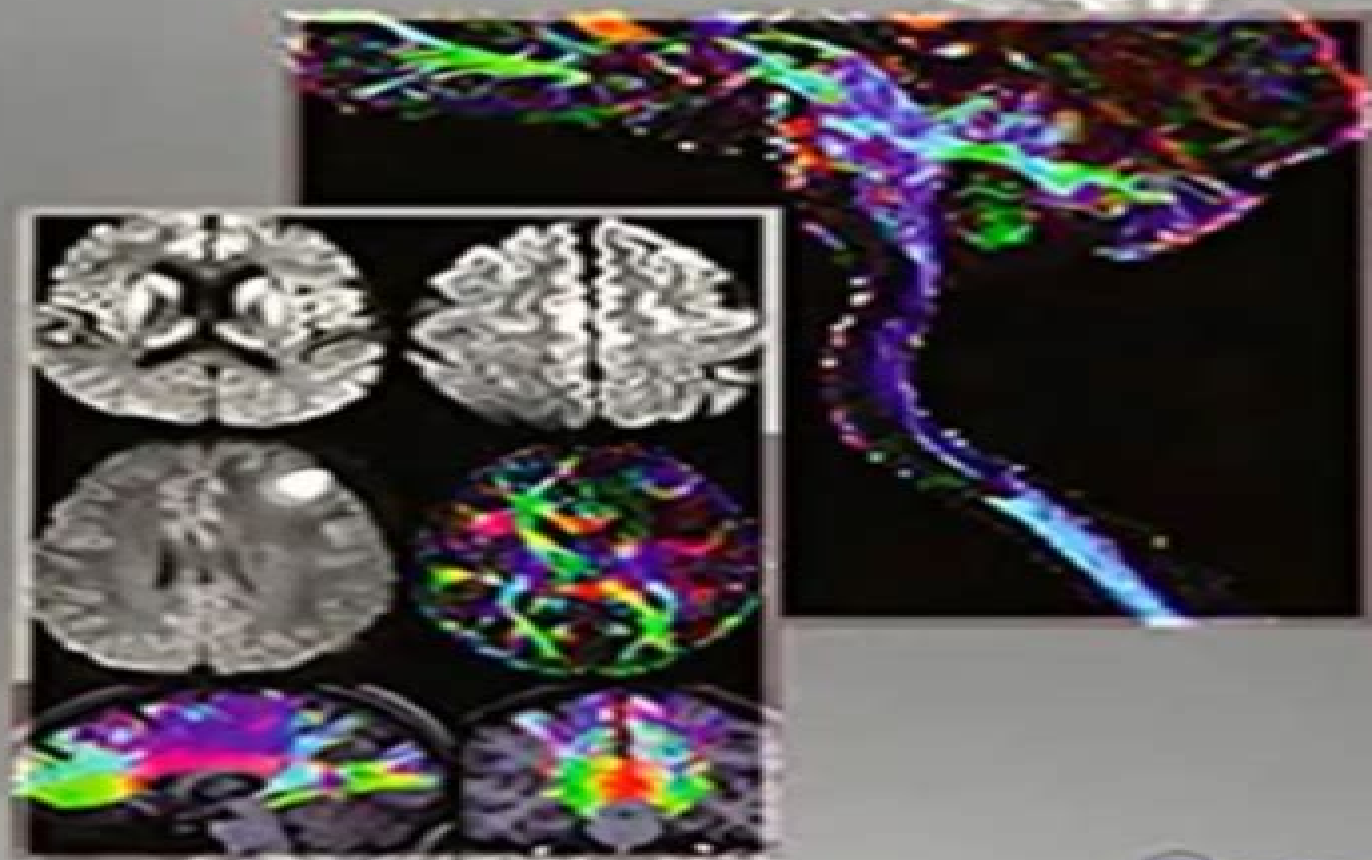


Diffusion Weighted and Diffusion Tensor Imaging

A Clinical Guide

Claudia da Costa Leite
Mauricio Castillo



 Thieme

Diffusion Weighted And Diffusion Tensor Imaging A Clinical Guide

**Claudia da Costa Leite, Mauricio
Castillo**



Diffusion Weighted And Diffusion Tensor Imaging A Clinical Guide:

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Diffusion Tensor Imaging Wim Van Hecke,Louise Emsell,Stefan Sunaert,2015-12-14 This book provides an overview of the practical aspects of diffusion tensor imaging DTI from understanding the basis of the technique through selection of the right protocols trouble shooting data quality and analyzing DTI data optimally DTI is a non invasive magnetic resonance imaging

MRI technique for visualizing and quantifying tissue microstructure based on diffusion The book discusses the theoretical background underlying DTI and advanced techniques based on higher order models and multi shell diffusion imaging It covers the practical implementation of DTI derivation of information from DTI data and a range of clinical applications including neurosurgical planning and the assessment of brain tumors Its practical utility is enhanced by decision schemes and a fully annotated DTI brain atlas including color fractional anisotropy maps and 3D tractography reconstructions of major white matter fiber bundles Featuring contributions from leading specialists in the field of DTI Diffusion Tensor Imaging A Practical Handbook is a valuable resource for radiologists neuroradiologists MRI technicians and clinicians

Fundamentals of Neurosurgery Andrei Fernandes Joaquim, Enrico Ghizoni, Helder Tedeschi, Mauro Augusto Tostes Ferreira, 2019-07-12 The aim of this book is to provide clinicians and medical students with basic knowledge of the most common neurosurgical disorders There is a vast array of signs and symptoms that every clinician should recognize as neurosurgical affectations allowing them to identify when to refer the patient to a neurosurgeon In this text the editors intend to bridge the gap between clinical medicine and neurosurgery making neurosurgical practice understandable to a wider medical public The book provides a smooth transition from neuroanatomy neurophysiology and neurological examination to neurosurgery focusing more on the knowledge underlying neurosurgical practice rather than on surgical technique The core of the book is composed of chapters discussing each of the most important medical conditions that deserve neurosurgical intervention providing key information on diagnosis clinical aspects disease management surgical procedures and prognosis Moreover complementary discussion of the frontiers and advances in neurosurgery are also covered In this sense this book has two main goals and intended audiences First and primarily it is intended for clinicians in a wide array of non surgical medical specialties such as general practitioners neurologists pediatricians oncologists and others aiming to give an overview on important characteristics and initial management of the most prevalent disorders treated by neurosurgeons Second and to a lesser degree it is intended to be used as a practical guide for medical students who are initiating their study in neurosurgical sciences *Fundamentals of Neurosurgery A Guide for Clinicians and Medical Students* intends to be a comprehensive guide for all non neurosurgeons who want to broaden their knowledge of neurosurgery

Traumatic Brain Injury: A Neurosurgeon's Perspective Gary Kraus, 2023-06-06 This new book from leading neurosurgeon and author Gary Kraus is an account of traumatic brain injury TBI from the time a brain injured patient arrives in the emergency department through to the wide range of clinical outcomes of such an injury Written with the voice of experience the author examines causation of TBI the patient's stay in the neuro intensive care unit and the many neurological assessments and tests that inform the outcomes that the patient and their families will encounter A wide range of medical professionals will benefit from Dr Kraus's acute insights into TBI including Neurosurgical residents Neurosurgeons with a sub specialist interest in Neuro Trauma Neurologists managing patients with post traumatic brain injury Neuro Intensivists

Neuro Psychologists Researchers scientists involved in Clinical trial in traumatic brain injury and those with a specialist interest in Neuro rehabilitation Clinical Applications of Functional MRI, An Issue of Neuroimaging Clinics Jay J. Pillai, 2014-11-13 Editor Jay J Pillai and authors review important areas in Clinical Applications of Functional MRI Articles will include Blood Oxygen Level Dependent Functional Magnetic Resonance Imaging for Presurgical Planning Visual Mapping Using Blood Oxygen Level Dependent Functional MRI Applications of BOLD fMRI and DTI in Epilepsy Pretherapeutic fMRI in Children BOLD fMRI for Presurgical Planning Brain Tensor Imaging for Brain Malformations Does it Help Technical Considerations for fMRI Analysis Special Considerations Technical Limitations of BOLD fMRI The Economics of Functional MRI Clinical and Research Memory Assessment in the Clinical Context Using fMRI A Critical Look at the State of the Field Resting State BOLD fMRI for Pre surgical Planning and more **Handbook of Diffusion MR Tractography** Flavio Dell'Acqua, Maxime Descoteaux, Alexander Leemans, 2024-11-19 Handbook of Tractography presents methods and applications of MR diffusion tractography providing deep insights into the theory and implementation of existing tractography techniques and offering practical advice on how to apply diffusion tractography to research projects and clinical applications Starting from the design of MR acquisition protocols optimized for tractography the book follows a pipeline approach to explain the main methods behind diffusion modelling and tractography including advanced analysis of tractography data and connectomics An extensive section of the book is devoted to the description of tractography applications in research and clinical settings to give a complete picture of tractography practice today By focusing on technology models and applications this handbook will be an indispensable reference for researchers and students with backgrounds in computer science mathematics physics neuroscience and medical science Provides a unique reference covering the whole field of MRI diffusion tractography Includes in depth descriptions of the latest research and current state of the art of methods available in the field of diffusion tractography Present a step by step pipeline approach from setting up MRI data acquisition to the analysis of large scale tractography datasets *Current State of the Art in Spinal Trauma, An Issue of Neurosurgery Clinics of North America, E-Book* John Hurlbert, 2021-06-08 This issue of Neurosurgery Clinics guest edited by Dr John Hurlbert is devoted to Current State of the Art in Spinal Cord Injury This is one of four issues selected each year by the series Consulting Editors Russell R Lonser and Daniel K Resnick Articles in this issue are dedicated to basics of spinal cord injury and emerging therapy and include topics such as Pathophysiology of spinal cord injury Natural history of spinal cord injury Diagnostic imaging in spinal cord injury Spinal cord injury clinical assessment tools Spinal cord injury management on the front line Central Cord Syndrome redefined Compartment Syndrome Hypothermia Pharmaceutical Regeneration and Neural interfacing and modulation *Surgery of Spinal Cord Tumors Based on Anatomy* Chun Kee Chung, 2021-01-20 This book describes and illustrates an approach to surgery for spinal cord tumors that is based on a refined concept of anatomic compartmentalization The aim of this approach is to enable maximum preservation of spinal cord

function through confinement of the surgical work to the involved compartment or compartments. Importantly, this involvement differs according to tumor type, and the classification favored by the author takes this fully into account. After introductory chapters on epidemiology and pathology, the anatomy of the spinal cord relevant to surgery for spinal cord tumors is discussed in detail, and the proposed classification is clearly explained. The surgical approach to each of the identified anatomic compartments is then described, with attention to the roles of intraoperative mapping techniques, diffusion tensor imaging, and electrophysiologic studies in ensuring that spinal cord functions are spared. Examples of the author's experience when applying the proposed approach are presented. The book is meant for neurosurgeons at all levels of experience.

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